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CLAIMS

1. A production method of polymer particles which producing graft polymer particles by contacting a coagulant with a polymer latex (A) obtained by graft polymerizing a monomer containing methylmethacrylate to a rubber-like polymer;

the method having a coagulation step in which polymer latex (A) is discharged into a stirring tank from an immersed nozzle provided so that the cross-sectional surface area of the discharge portion is 40 mm^2 or more and the direction of discharge is facing in the same direction as the flow in the stirring tank and so that the linear velocity at the nozzle outlet is a velocity of 50-350 mm/s, and contacted with a coagulant to coagulate the graft polymer and obtain a slurry liquid; and

a solidification step in which the resulting slurry liquid is held at a temperature of $60-100^\circ\text{C}$ to solidify the coagulated graft polymer.

2. A production method of polymer particles according to claim 1, wherein a hard, inelastic polymer latex (B) having a glass transition temperature of 50°C or higher is added at the stage prior to the coagulation step and/or solidification step.

3. A production method of polymer particles according to claim 1, wherein a slurry particle crushing step, in which slurry liquid obtained in the coagulation step is formed into a creamy slurry liquid free of coarse particles, is carried out between the coagulation step and the solidification step.

4. A production method of polymer particles according to claim 2, wherein a slurry particle crushing step, in which slurry liquid obtained in the coagulation step is formed into a creamy slurry liquid free of coarse particles, is carried out between the coagulation step and the solidification step.

5. A production method of polymer particles according to claim 3, wherein the slurry particle crushing step is carried out under conditions in which particles in the slurry liquid are crushed at a shear rate of 10,000-500,000/s.

6. A production method of polymer particles according to claim 4, wherein the slurry particle crushing step is carried out under conditions in which particles in the slurry liquid are crushed at shear rate of 10,000-500,000/s.

7. A production method of polymer particles according to claim 5, wherein the shear rate is greater than 10,000/s and less than or equal to 500,000/s.

8. A production method of polymer particles according to claim 6, wherein the shear rate is greater than 10,000/s and less than or equal to 500,000/s.
9. A production method of polymer particles that is a method of producing graft polymer particles comprising contacting a coagulant with a polymer latex (A) obtained by graft polymerizing a monomer containing methylmethacrylate to a rubber-like polymer, the method comprising:
 - a coagulation step in which polymer latex (A) is contacted with coagulant to coagulate the graft polymer and obtain a slurry liquid; followed by,
 - a slurry particle crushing step in which the slurry liquid obtained in the coagulation step is formed into a creamy slurry liquid free of coarse particles; and,
 - a solidification step in which the slurry liquid obtained in the slurry particle crushing step is held at a temperature of 60-100°C to solidify the graft polymer.
10. A production method of polymer particles according to claim 9, wherein a hard, inelastic polymer latex (B) having a glass transition temperature of 50°C or higher is added at the stage prior to the coagulation step and/or solidification step.
11. A production method of polymer particles according to claim 9, wherein the graft polymer solid concentration in the slurry in the stirring tank in the coagulation step is 20-30% by weight.
12. A production method of polymer particles according to claim 10, wherein the graft polymer solid concentration in the slurry in the stirring tank in the coagulation step is 20-30% by weight.
13. A production method of polymer particles according to claim 9, wherein the slurry particle crushing step is carried out under conditions in which particles in the slurry liquid are crushed at a shear rate of 10,000-500,000/s.
14. A production method of polymer particles according to claim 10, wherein the slurry particle crushing step is carried out under conditions in which particles in the slurry liquid are crushed at shear rate of 10,000-500,000/s.
15. A production method of polymer particles according to claim 11, wherein the slurry particle crushing step is carried out under conditions in which particles in the slurry liquid are crushed at shear rate of 10,000-500,000/s.
16. A production method of polymer particles according to claim 12, wherein the slurry particle crushing step is carried out under conditions in which particles in the slurry liquid

are crushed at shear rate of 10,000-500,000/s.

17. A production method of polymer particles according to claim 13, wherein the shear rate is greater than 10,000/s and less than or equal to 500,000/s.

18. A production method of polymer particles according to claim 14, wherein the shear rate is greater than 10,000/s and less than or equal to 500,000/s.

19. A production method of polymer particles according to claim 15, wherein the shear rate is greater than 10,000/s and less than or equal to 500,000/s.

20. A production method of polymer particles according to claim 16, wherein the shear rate is greater than 10,000/s and less than or equal to 500,000/s.